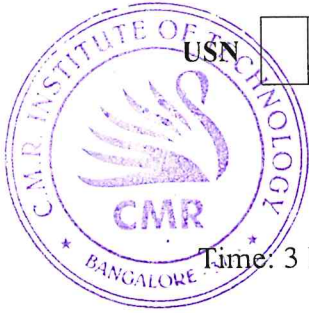


CBCS SCHEME

15CS565



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Fifth Semester B.E. Degree Examination, Aug./Sept.2020 Cloud Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain Cloud-Computing Reference Model with a neat diagram. (06 Marks)
b. List any four different computing platforms and technologies. (10 Marks)

OR

- 2 a. Discuss any three different Hardware Virtualization Techniques. (07 Marks)
b. Explain with neat diagrams, Type I and Type II hypervisors. (05 Marks)
c. Describe people and Goldberg's Theorem 1 and Theorem 2. (04 Marks)

Module-2

- 3 a. With a neat diagram, explain Infrastructure – as – a service reference model and functionalities of its components. (10 Marks)
b. Explain Hardware and software stack of private cloud. List any two key advantages of using private cloud interface. (06 Marks)

OR

- 4 a. List the different types of Application services provided by Aneka container. (04 Marks)
b. Explain with a neat diagram, logical organization of an Aneka cloud. (06 Marks)
c. With a neat diagram, explain private deployment mode and public deployment mode supported by Aneka. (06 Marks)

Module-3

- 5 a. Define Thread. Explain relationship between processes and Threads with a neat diagram. (05 Marks)
b. Explain Domain decomposition techniques for parallel computation with Threads with help of diagrams. (04 Marks)
c. Explain Aneka and common thread life cycle with a neat diagram. (07 Marks)

OR

- 6 a. Discuss any two categories of Task Computing. (04 Marks)
b. Explain MPI program structure with a neat diagram. (06 Marks)
c. Explain offspring workflow manager architecture, with a neat diagram. (06 Marks)

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Module-4

- 7 a. Explain reference scenario, characteristics and applications of Data Grid. (06 Marks)
b. Discuss Lustre, IBM GPFS, Google File system and sector high-performance Distributed File systems. (06 Marks)
c. Analyze BigTable architecture with a neat diagram. (04 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 8 a. With help of computation workflow diagram, discuss MapReduce Programming model. (06 Marks)
b. Explain any three variations and extensions of MapReduce. (06 Marks)
c. With a neat diagram, explain Aneka MapReduce Data File format. (04 Marks)

Module-5

- 9 a. Describe AWS Cloud Formation and AWS Beanstalk. (04 Marks)
b. Discuss Resource Naming, Buckets and Objects and Metadata with respect to AWS. (07 Marks)
c. Explain Amazon Route 53 and Amazon Simple Notification Service (SNS). (05 Marks)

OR

- 10 a. With a neat diagram, explain sand boxing and supported Runtimes of Google App Engine. (06 Marks)
b. With neat diagram, describe SQL Azure Architecture. (05 Marks)
c. Explain with a neat diagram, Animoto Reference Architecture. (05 Marks)

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